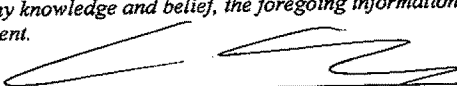


Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
				Attorney Docket No. 160875	
Please record the attached original document or copy thereof.					
1. A. Name of conveying party(ies): Adam George Antrum RUSHWORTH Dragos Aurelian AXINTE John Marcus ALLEN James KELL Ralph Graham ANDERSON B. Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. A. Name and address of receiving party(ies): ROLLS-ROYCE PLC London, Great Britain B. Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. A. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ B. Execution Date: <u>August 1, 2018; August 7, 2018; August 9, 2018; February 21, 2014; February 19, 2014</u>					
4. <input type="checkbox"/> This document is being filed together with a new application.					
A. Patent Application No(s) <u>14/206,775</u>			B. Patent No(s) _____		
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
C. Title of Application: <u>AN INDEPENDENTLY MOVEABLE MACHINE TOOL</u>					
D. <input type="checkbox"/> This Assignment is submitted for a dual purpose: (1) recording in the assignment database; and (2) for use in the above-identified application as the oath or declaration pursuant to 37 CFR 1.63(c).					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>James A. Oliff</u> Address: OLIFF PLC P.O. Box 320850 Alexandria, VA 22320-4850 email@oliff.com			6. Total number of applications and patents involved: <u>1</u> 7. Please charge Deposit Account No. 15-0461 any fees. 8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.		
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  Gang Luo, Registration No. 50,559 </div> <div style="text-align: right;"> Date: <u>8-16-18</u> </div> </div>					
Total number of pages including cover sheet, attachments, and document: <u>14</u>					

CH \$50.00 14206775

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))
For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

(1-8)	Insert	(1)	ADAM GEORGE ANTRUM RUSHWORTH	(2)	DRAGOS AURELIAN AXINTE
	Legal Name(s)	(3)	JOHN MARCUS ALLEN	(4)	JAMES KELL
	of Inventor(s)	(5)	RALPH GRAHAM ANDERSON	(6)	
		(7)		(8)	

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC
(10)	Insert Address of Assignee	(10)	65 Buckingham Gate, London, SW1E 6AT, Great Britain

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	MACHINE TOOL 5236 JNR (Attorney Docket No. _____)
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(12)	Alternative Identification for filed applications	(12)	U.S. Application Number _____ filed <<Application Date>> _____
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 1/8/18 Inventor Signature Adam George Antrum Rushworth (SEAL)

Date _____ Inventor Signature DRAGOS AURELIAN AXINTE (SEAL)

Date _____ Inventor Signature JOHN MARCUS ALLEN (SEAL)

Date _____ Inventor Signature JAMES KELL (SEAL)

Date _____ Inventor Signature RALPH GRAHAM ANDERSON (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date 1/8/2018 Witness for
Adam George
Antrum
Rushworth [Signature]

Date 1/8/2018 Witness for
Adam George
Antrum
Rushworth [Signature]

Date _____ Witness for
Dragos Aurelian
Axinte _____

Date _____ Witness for
Dragos Aurelian
Axinte _____

Date _____ Witness for John
Marcus Allen _____

Date _____ Witness for John
Marcus Allen _____

Date _____ Witness for
James Kell _____

Date _____ Witness for
James Kell _____

Date _____ Witness for
Ralph Graham
Anderson _____

Date _____ Witness for
Ralph Graham
Anderson _____

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))
For Application with Filing Date on or after September 16, 2012

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(1-8)	Legal Name(s)	(3)	JOHN MARCUS ALLEN	(4)	JAMES KELL
	Co-Inventor(s)	(5)	RALPH GRAHAM ANDERSON	(6)	
		(7)		(8)	

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Inventor Signature ADAM GEORGE ANTRUM RUSHWORTH (SEAL)

Date 07/08/2018 Inventor Signature DRAGOS AURELIAN AXINTE  (SEAL)

Date _____ Inventor Signature JOHN MARCUS ALLEN (SEAL)

Date _____ Inventor Signature JAMES KELL (SEAL)

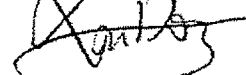
Date _____ Inventor Signature RALPH GRAHAM ANDERSON (SEAL)


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Date _____ Witness for
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Antrum
Rushworth _____

Date _____ Witness for
Adam George
Antrum
Rushworth _____

Date _____ Witness for
Dragos Aurelian
Axinte _____

Date 07/08/2018 Witness for  DRAGOS AURELIAN AXINTE XIN DONG

Date 07/08/2018 Witness for John  JOHN MARCUS ALLEN DAVID CHA

Date _____ Witness for John
Marcus Allen _____

Date _____ Witness for
James Kell _____

Date _____ Witness for
James Kell _____

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))**For Application with Filing Date on or after September 16, 2012****ASSIGNMENT**

(1-8)	Insert Legal Name(s) of Inventor(s)	(1) ADAM GEORGE ANTRUM RUSHWORTH (3) JOHN MARCUS ALLEN (5) RALPH GRAHAM ANDERSON (7)	(2) DRAGOS AURELIAN AXINTE (4) JAMES KELL (6) (8)
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to	
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(10)	Insert Address of Assignee	(10) 65 Buckingham Gate, London, SW1E 6AT, Great Britain	
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Inventor Signature ADAM GEORGE ANTRUM RUSHWORTH (SEAL)

Date _____ Inventor Signature DRAGOS AURELIAN AXINTE (SEAL)

Date 9/8/18 Inventor Signature JOHN MARCUS ALLEN (SEAL)

Date _____ Inventor Signature JAMES KELL (SEAL)

Date _____ Inventor Signature RALPH GRAHAM ANDERSON (SEAL)

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Antrum
Rushworth _____

Date _____ Witness for
Adam George
Antrum
Rushworth _____

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Dragos Aurelian
Axinte _____

Date _____ Witness for
Dragos Aurelian
Axinte _____

Date 9/8/18 Witness for John
Marcus Allen [Signature]

Date 9/8/18 Witness for John
Marcus Allen [Signature]

Date _____ Witness for
James Kell _____

Date _____ Witness for
James Kell _____

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))

For Application with Filing Date on or after September 16, 2012

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Insert	(1) ADAM GEORGE ANTRUM RUSHWORTH	(2) DRAGOS AURELIAN AXINTE
(1-8) Legal Name(s)	(3) JOHN MARCUS ALLEN	(4) JAMES KELL
of Inventor(s)	(5) RALPH GRAHAM ANDERSON	(6)
	(7)	(8)

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(9) Insert Name of Assignee	(9) ROLLS-ROYCE PLC
(10) Insert Address of Assignee	(10) 65 Buckingham Gate, London, SW1E 6AT, Great Britain

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Date _____ Inventor Signature DRAGOS AURELIAN AXINTE (SEAL)

Date _____ Inventor Signature JOHN MARCUS ALLEN (SEAL)

Date 21st February 2014 Inventor Signature JAMES KELL (SEAL)

Date _____ Inventor Signature RALPH GRAHAM ANDERSON (SEAL)

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Dragos Aurelian
Axinte _____

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Axinte _____

Date _____ Witness for John
Marcus Allen _____

Date _____ Witness for John
Marcus Allen _____

Date 21st Feb 2014 Witness for
James Kell Edwin Escobedo-Ruiz

Date 21st FEB 2014 Witness for
James Kell S. Taylor SUSAN TAYLOR

Date _____ Witness for
Ralph Graham
Anderson _____

Date _____ Witness for
Ralph Graham
Anderson _____

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Date _____ Inventor Signature JAMES KELL (SEAL)

Date 19 FEBRUARY 2014 Inventor Signature  RALPH GRAHAM ANDERSON (SEAL)

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Marcus Allen _____

Date _____ Witness for
James Kell _____

Date _____ Witness for
James Kell _____


Date 19 February 2014

Witness for
Ralph Graham
Anderson

 S. CATHIN

Date 19 February 2014

Witness for
Ralph Graham
Anderson

 R. Swain